

DOCKET NO.: CFMT-0255

1762  
PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Steven Verhaverbeke

Serial No.: 10/074,516

Group Art Unit: 1762

Filing Date: February 13, 2002

Examiner: Not Yet Assigned

For: METHOD FOR ETCHING ELECTRONIC COMPONENTS CONTAINING  
TANTALUM

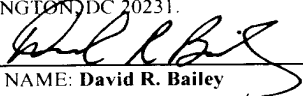
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WASHINGTON, DC 20231.

  
TYPED NAME: David R. Bailey  
REGISTRATION NO.: 35,057

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §§1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).



In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first office action after the filing of request for continued examination under §1.114, no additional fee is required.

- ☐ In accordance with §1.129(a), this Information Disclosure Statement is being filed in connection with ☐the first or ☐second After Final Submission, therefore:
- ☐ Certification in Accordance with §1.97(e) is attached; or
- ☐ The fee of \$180.00 as set forth in §1.17(p) is attached.
- ☐ In accordance with §1.97(c), this Information Disclosure Statement is being filed after the period set forth in §1.97(b) above but before the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311, or before an action that otherwise closes prosecution in the application, therefore:
- ☐ Certification in Accordance with §1.97(e) is attached; or
- ☐ The fee of \$180.00 as set forth in §1.17(p) is attached.
- ☐ In accordance with §1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under §1.113 or a Notice of Allowance under §1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with §1.97(e); and the submission fee of \$180.00 as set forth in §1.17(p).
- ☒ Copies of each of the references listed on the attached Form PTO-1449 are enclosed herewith.
- ☐ Copies of references listed on the attached Form PTO-1449 are enclosed herewith EXCEPT THAT:
- ☐ In view of the voluminous nature of references [**list as appropriate**], and the likelihood that these references are available to the Examiner, copies are not enclosed herewith.

- ☐ In accordance with §1.98(d), copies of the following references listed on the attached Form PTO-1449 are not enclosed herewith because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application(s) for which a claim for priority under 35 U.S.C. §120 have been made in the instant application:
- ☐ Copies of references **[list as appropriate]** listed on the attached Form PTO-1449 were previously cited by or submitted to the Patent and Trademark Office in prior application Serial No. , filed .
- ☐ If any of the foregoing publications are not available to the Examiner, Applicant will endeavor to supply copies at the Examiner's request.

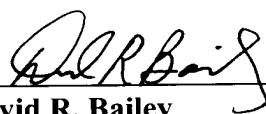
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This form is submitted in duplicate.

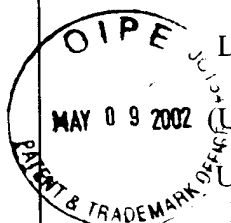
There are no listed references which are not in the English language.

Date:

5/3/02

  
\_\_\_\_\_  
**David R. Bailey**  
Registration No. 35,057

WOODCOCK WASHBURN LLP  
One Liberty Place - 46th Floor  
Philadelphia, PA 19103  
Telephone: (215) 568-3100  
Facsimile: (215) 568-3439

**Form PTO-1449 Modified**Docket No.  
**CFMT-0255**Serial No.  
**10/074,516**Applicant  
**Steven Verhaverbeke**Filing Date  
**February 13, 2002**Group  
**1762- 17 C.3**List of Patent and Publications  
Cited by Applicant  
(Use several sheets if necessary)U.S. Department of Commerce  
Patent and Trademark Office**U. S. PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Name	Class	Subclass
	AZ	6,245,158 B1	06/12/01	Verhaverbeke	134	10
	BA	6,261,845 B1	07/17/01	Verhaverbeke, et al.	436	55
✓	BB	09/478,094	01/05/00	Verhaverbeke		
✓	BC	09/564,358	04/19/00	DiBello, G.N.		
✓	BD	09/574,790	05/19/00	Verhaverbeke		
✓	BE	09/727,661	12/01/00	Verhaverbeke, et al.		
✓	BF	09/805,348	03/13/01	Verhaverbeke, S. et al.		
✓	BG	09/930,009	08/15/01	Bay, et al.		

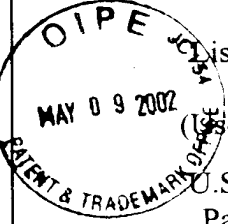
**FOREIGN PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Country	Translation YES NO	
✓	BH	EP 0 233 184 B1	08/26/87	EPO		

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<b>Form PTO-1449 Modified</b>  List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office		Docket No. <b>CFMT-0255</b>	Serial No. <b>10/074,516</b>
		Applicant <b>Steven Verhaverbeke</b>	
		Filing Date <b>February 13, 2002</b>	Group <b>1762</b> — <b>1763</b>
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>			
	AA	Burkman, D.C. et al., "Aqueous Cleaning Processes", <b>Chapter 3</b> , <i>Handbook of Semiconductor Wafer Cleaning Technology</i> , (edited by Werner Kern, Published by Noyes Publication Parkridge, New Jersey, <b>1993</b> , 111-151	
	AB	Horiki, H. et al., "Wet Etch Cleaning", <i>Ultraclean Technology Handbook</i> , Ultra Pure Water, Volume 1, Chapter 3, 805-819	
	AC	Werner Kern, et al., <i>Thin Film Processes</i> , "Chemical Etching", <b>1978</b> , 401-496	
	AD	Werner Kern, "Overview and Evolution of Semiconductor Wafer Contamination and Cleaning Technology", <b>Chapter 1</b> , 3-67	
	AE	Verhaverbeke, S. et al., "Scientific rinsing and drying on macro and microscale", <i>Semiconductor Pure Water and Chemicals Conference</i> , Balazs, M.J. (Ed.), Santa Clara, Ca., March 4-7, <b>1996</b> , 14 pages	
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**1762 — 1763**List of Patent and Publications  
Cited by Applicant

(Use several sheets if necessary)

U.S. Department of Commerce  
Patent and Trademark Office**U. S. PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Name	Class	Subclass
	AF	4,577,650	03/25/86	McConnell	134	59
	AG	4,633,893	01/06/87	McConnell, et al.	134	95
	AH	4,738,272	04/19/88	McConnell	134	59
	AI	4,740,249	04/26/88	McConnell	134	25.4
	AJ	4,778,532	10/18/88	McConnell, et al.	134	10
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	AL	4,856,272	08/15/89	Putman, et al.	60	39.02
	AM	4,856,544	08/15/89	McConnell, et al.	134	95
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	AO	4,911,761	03/27/90	McConnell, et al.	134	11

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Patent and Trademark OfficeFiling Date  
**February 13, 2002**Group  
~~1762~~ **1763****U. S. PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Name	Class	Subclass
	AP	4,917,123	04/17/90	McConnell, et al.	134	95
	AQ	4,984,597	01/15/91	McConnell, et al.	134	95
	AR	5,383,484	01/24/95	Thomas, et al.	134	184
	AS	5,569,330	10/29/96	Schild, et al.	131	1
	AT	5,571,337	11/05/96	Mohindra, et al.	134	25.4
	AU	5,972,123	10/26/99	Verhaverbeke	134	3
	AV	6,032,682	03/07/00	Verhaverbeke	134	1.3
	AW	6,135,522	10/17/00	Verhaverbeke, et al.	134	26
	AX	6,143,087	11/07/00	Walter	134	1
	AY	6,165,912	12/26/00	McConnell, et al.	438	758

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